## IN THE CLAIMS

Please amend the claims as follows:

- 1. 4. (Cancelled)
- 5. (Currently Amended) A method for quenching a metallic material, comprising adjusting the pressure on the surface of a quenching oil to a reduced pressure condition having a lower limit of 13-70 kPa, wherein said quenching oil comprises (A) a base oil having a kinematic viscosity at 40 °C of 40 mm<sup>2</sup>/s or more and (B) a vapor blanket breaking agent.
  - 6. (Cancelled)
- 7. (Previously Presented) The method according to claim 5, wherein said base oil is a base oil that has a characteristic time of 2.5 or less, in the test of heat treating oils in JIS K 2242.
- 8. (Previously Presented) The method according to claim 5, wherein the kinematic viscosity at 40  $^{\circ}$ C of said base oil is 40 to 300 mm<sup>2</sup>/s.
- 9. (Previously Presented) The method according to claim 5, wherein the quenching oil comprises said vapor blanket breaking agent in an amount of 5 % or more by mass based on said quenching oil.
- 10. (Previously Presented) The method according to claim 5, wherein the pressure on the surface of the quenching oil is adjusted to 15-70 kPa.

## 11. (Cancelled)

12. (Previously Presented) The method according to claim 5, wherein said base oil is a base oil that has a characteristic time of 2.5 or less, in the test of heat treating oils in JIS K 2242, the kinematic viscosity at 40 °C of said base oil is 40 to 300 mm<sup>2</sup>/s, the quenching oil comprises said vapor blanket breaking agent in an amount of 5 % or more by mass based on said quenching oil, and the pressure on the surface of the quenching oil is adjusted to 15-70 kPa.

## 13. (Cancelled)

- 14. (Previously Presented) The method according to claim 9, wherein the quenching oil comprises said vapor blanket breaking agent in an amount of 30 % or less by mass based on said quenching oil.
- 15. (Previously Presented) The method according to claim 5, wherein said base oil is a base oil that has a characteristic time of 2.0 or less, in the test of heat treating oils in JIS K 2242.
- 16. (Previously Presented) The method according to claim 5, wherein said base oil has a flash point of 230  $^{\circ}$ C or more.
- 17. (Previously Presented) The method according to claim 5, wherein said base oil comprises 5% or less by mass of a light cut whose boiling point is below 400 °C.

Application No. 10/591,705

Reply to Office Action of September 9, 2009

18. (Previously Presented) The method according to claim 5, wherein said base oil comprises mineral oil.

- 19. (Previously Presented) The method according to claim 5, wherein said metallic material is steel.
- 20. (Previously Presented) The method according to claim 5, wherein quenching is performed in a vacuum furnace.
- 21. (Previously Presented) The method according to claim 5, wherein quenching is performed in a vacuum carburizing furnace.
  - 22. (Cancelled)
- 23. (New) The method according to claim 5, wherein said quenching oil consists of said base oil having a kinematic viscosity at 40 °C of 40 mm<sup>2</sup>/s or more and said vapor blanket breaking agent.
- 24. (New) The method according to claim 5, further comprising contacting said metallic material with said quenching oil when the pressure on the surface of the quenching oil is 13-70 kPa.